

Title (en)

FUNCTIONALIZED POLYMER BLENDS FOR IMPROVED WEAR

Title (de)

FUNKTIONALISIERTE POLYMERMISCHUNGEN MIT VERBESSERTER VERSCHLEISSFESTIGKEIT

Title (fr)

MELANGES DE POLYMERES FONCTIONNALISES EN VUE D'UNE RESISTANCE A L'USURE AMELIOREE

Publication

EP 3063018 A1 20160907 (EN)

Application

EP 14802733 A 20141027

Priority

- US 201361898409 P 20131031
- US 2014062356 W 20141027

Abstract (en)

[origin: WO2015065884A1] A tire tread formed at least in part from a rubber composition that is based upon a cross- linkable rubber composition that may include between 50 phr and 90 phr of a first highly unsaturated elastomer being middle chain functionalized with an aminoalkoxysilane group and having a Tg of between -108 °C and -45 °C and between 10 phr and 50 phr of a second highly unsaturated elastomer being end-chain functionalized with a silanol group and having a Tg of between -108 °C and -10 °C. The rubber composition may further include between 50 phr and 150 phr of a silica filler and a plasticizing system comprising between 5 phr and 120 phr of a plasticizing resin having a Tg of at least 25 °C and between 0 phr and 60 phr of a plasticizing liquid.

IPC 8 full level

B60C 1/00 (2006.01); **C08L 9/06** (2006.01); **C08L 15/00** (2006.01)

CPC (source: EP US)

B60C 1/0016 (2013.01 - EP US); **B60C 11/0008** (2013.01 - US); **B60C 11/005** (2013.01 - US); **C08L 9/06** (2013.01 - US); **C08L 15/00** (2013.01 - EP US); **B60C 2011/0025** (2013.01 - US)

Citation (search report)

See references of WO 2015065884A1

Cited by

US10472502B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2015065884 A1 20150507; CN 105745086 A 20160706; CN 105745086 B 20181109; EP 3063018 A1 20160907; EP 3063018 B1 20170809; US 10207540 B2 20190219; US 2016280007 A1 20160929

DOCDB simple family (application)

US 2014062356 W 20141027; CN 201480062947 A 20141027; EP 14802733 A 20141027; US 201415033635 A 20141027